

Atty. Docket No. JP920000133US1

(590.074)

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application. No changes are made to the claims herein.

Listing of Claims:

What is claimed is:

1. (Original) A word prediction method, said method comprising the steps of:

specifying a sentence structure consisting of multiple words, including a target word to be predicted;

employing said sentence structure to select a word and/or a word sequence that has a modification relationship with said target word to be predicted; and

predicting said target word based on said word and/or said word sequence that is selected.

2. (Original) The word prediction method according to claim 1, wherein said word and/or said word sequence constitute a partial analysis tree structure in said sentence structure.

3. (Original) The word prediction method according to claim 1, wherein, when multiple words and/or word sequences are selected, word prediction is performed based on said words and/or word sequences that are selected.

4. **(Original)** A word prediction method, said method comprising the steps of:

specifying a modification of a word to be predicted by a different word
and/or word sequence; and

prediction said word using said different word and/or word sequence that
is specified.

5. **(Original)** The word prediction method according to claim 4, wherein said
modification includes a modification direction, and said word to be predicted modifies
a prior word.

6. **(Original)** The word prediction method according to claim 4, wherein, when
multiple modifications are established between said word to be predicted and said
different word and/or word sequence, a word is predicted for each of said
modifications.

7. **(Withdrawn)** A speech recognition method, said method comprising the
steps of:

specifying the structure of a phrase from the beginning of a sentence to
the j-th word ($j=0, 1, 2, \dots$);

employing a sentence structure up to said j-th word to specify one or
multiple partial analysis trees modifying the (j+1)th word;

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predicting said (j+1)th word based on said one or multiple partial
analysis trees;

obtaining a sentence for a phrase including said predicted (j+1)th word
and the probability value for said sentence structure; and

performing the above steps up to the last word of said sentence, and
selecting, as speech recognition results, a sentence structure and a word sequence
having maximum probability values.

8. (Original) A word prediction apparatus comprising:

a storer which stores a dictionary wherein text data that have been
learned is written; and

a predictor which employs a structure of a sentence consisting of
multiple words, including a word to be predicted, to select a word and/or a word
sequence that has a modification relationship with said word to be predicted, and which
predicts said word based on said word and/or said word sequence that is selected.

9. (Original) A word prediction apparatus comprising:

a storer which stores a dictionary wherein text data that have been
learned is written; and

a predictor which selects a word and/or a word sequence that has a modification relationship with a word to be predicted, and which predicts said word based on said word and/or said word sequence that is selected.

10. **(Original)** The word prediction apparatus according to claim 9, wherein, for a predetermined word or word sequence based on said text data, a frequency where at another predetermined word appears is stored in said dictionary.

11. **(Original)** The word prediction apparatus according to claim 10, wherein said predictor calculates a probability value for a word sequence including a word that is predicted based on said frequency.

12. **(Original)** The word prediction apparatus according to claim 11, wherein said predictor selects, as a prediction result, a word sequence having the maximum probability value.

13. **(Withdrawn)** A speech recognition apparatus comprising:

an acoustic processor which converts an input analog speech signal into a digital signal;

a first storer which stores an acoustic model that has learned a feature of speech;

a second storer which stores a dictionary wherein an appearance frequency of a predetermined word relative to another predetermined word and/or word sequence is written; and

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a recognizer which uses said acoustic model and said dictionary to calculate a probability value for said digital signal, and which recognizes a word having the maximum probability value as input speech, wherein said recognizer predicts a word to be predicted based on a structure of a sentence including said word, and employs said appearance frequency to calculate said probability value for said sentence, including said word that is predicted.

14. (Original) A computer system comprising:

a specifier which specifies a modification relationship between a word to be predicted and another word and/or word sequence, and which predicts said word by employing said word and/or word sequence modifying said word; and

a display which displays said word that is predicted, and said modification relationship.

15. (Original) A storage medium, on which a computer readable program is stored that permits a computer to perform:

a first process for specifying a sentence structure consisting of multiple words, including a target word to be predicted;

a second process for employing said sentence structure to select a word and/or a word sequence that has a modification relationship with said target word to be predicted; and

a third process for predicting said target word based on said word and/or said word sequence that is selected.

16. (Original) A storage medium, on which a computer readable program is stored, that permits a computer to perform:

a first process for specifying a modification relationship between a word to be predicted and a different word and/or word sequence; and

a second process for predicting said word using said different word and/or word sequence that is specified.

17. (Original) A program transmission apparatus comprising:

a storer which stores a program permitting a computer to perform

a first process for specifying a sentence structure of a multiple word sentence, including a target word to be predicted,

a second process for employing said sentence structure to select a word and/or a word sequence that has a modification relationship with said target word to be predicted, and

a third process for predicting said target word based on said word and/or said word sequence that is selected; and

a transmitter which reads said program from said storer and transmits said program.

18. (Original) A program transmission apparatus comprising:

a storer which stores a program permitting a computer to perform

a first process for specifying a modification relationship between

a word to be predicted and a different word and/or word sequence, and

a second process for predicting said word using said different
word and/or word sequence that is specified; and

a transmitter which reads said program from said storer and transmits
said program.

19. (Original) A program storage device readable by machine, tangibly
embodying a program of instructions executable by the machine to perform method steps
for word prediction, said method comprising the steps of:

specifying a sentence structure consisting of multiple words, including a
target word to be predicted;

employing said sentence structure to select a word and/or a word
sequence that has a modification relationship with said target word to be predicted; and

predicting said target word based on said word and/or said word
sequence that is selected.

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20. **(Original)** A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for word prediction, said method comprising the steps of:

specifying a modification of a word to be predicted by a different word and/or word sequence; and

prediction said word using said different word and/or word sequence that is specified.

21. **(Withdrawn)** A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for speech recognition, said method comprising the steps of:

specifying the structure of a phrase from the beginning of a sentence to the j-th word ($j=0, 1, 2, \dots$);

employing a sentence structure up to said j-th word to specify one or multiple partial analysis trees modifying the (j+1)th word;

predicting said (j+1)th word based on said one or multiple partial analysis trees;

obtaining a sentence for a phrase including said predicted (j+1)th word and the probability value for said sentence structure; and

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performing the above steps up to the last word of said sentence, and selecting,
as speech recognition results, a sentence structure and a word sequence having
maximum probability values.